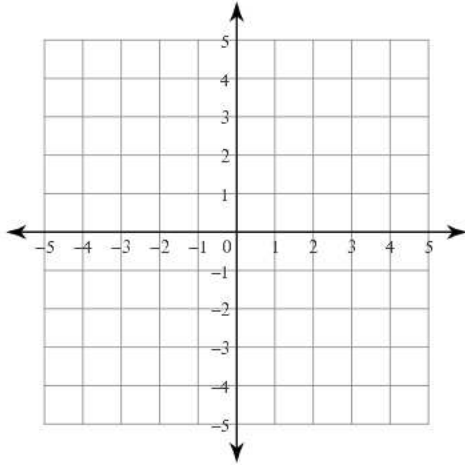


Systems of Two Equations

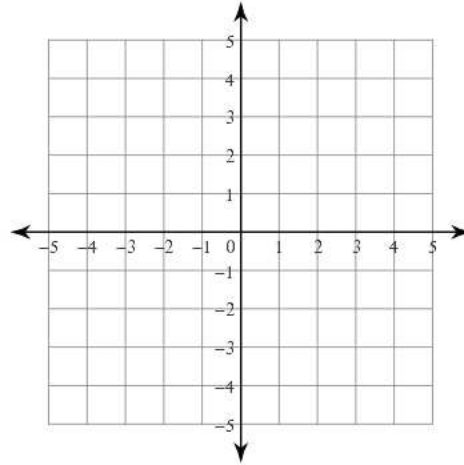
Date _____ Period _____

Solve each system by graphing.

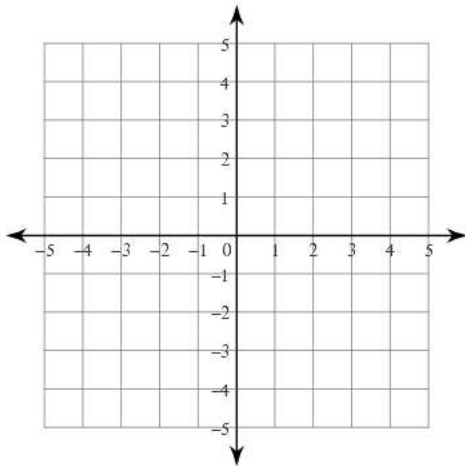
1) $y = -3x + 4$
 $y = 3x - 2$



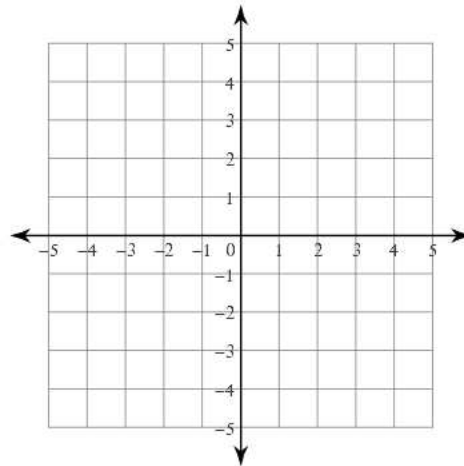
2) $y = x + 2$
 $x = -3$



3) $x - y = 3$
 $7x - y = -3$



4) $4x + y = 2$
 $x - y = 3$

**Solve each system by substitution.**

5) $y = 4x - 9$
 $y = x - 3$

6) $4x + 2y = 10$
 $x - y = 13$

7) $y = -5$
 $5x + 4y = -20$

8) $x + 7y = 0$
 $2x - 8y = 22$

$$\begin{array}{l} 9) \ 6x + 8y = -22 \\ \quad y = -5 \end{array}$$

$$\begin{array}{l} 10) \ -7x + 2y = 18 \\ \quad 6x + 6y = 0 \end{array}$$

$$\begin{array}{l} 11) \ 7x + 2y = -19 \\ \quad -x + 2y = 21 \end{array}$$

$$\begin{array}{l} 12) \ 3x - 5y = 17 \\ \quad y = -7 \end{array}$$

$$\begin{array}{l} 13) \ -7x + 4y = 24 \\ \quad 4x - 4y = 0 \end{array}$$

$$\begin{array}{l} 14) \ 4x - y = 20 \\ \quad -2x - 2y = 10 \end{array}$$

Solve each system by elimination.

$$\begin{array}{l} 15) \ 8x - 6y = -20 \\ \quad -16x + 7y = 30 \end{array}$$

$$\begin{array}{l} 16) \ 6x - 12y = 24 \\ \quad -x - 6y = 4 \end{array}$$

$$\begin{array}{l} 17) \ -8x - 10y = 24 \\ \quad 6x + 5y = 2 \end{array}$$

$$\begin{array}{l} 18) \ -24 - 8x = 12y \\ \quad 1 + \frac{5}{9}y = -\frac{7}{18}x \end{array}$$

$$\begin{array}{l} 19) \ -4y - 11x = 36 \\ \quad 20 = -10x - 10y \end{array}$$

$$\begin{array}{l} 20) \ -9 + 5y = -4x \\ \quad -11x = -20 + 9y \end{array}$$

$$\begin{array}{l} 21) \ 0 = -2y + 10 - 6x \\ \quad 14 - 22y = 18x \end{array}$$

$$\begin{array}{l} 22) \ -16y = 22 + 6x \\ \quad -11y - 4x = 15 \end{array}$$

$$\begin{array}{l} 23) \ -16 + 20x - 8y = 0 \\ \quad 36 = -18y - 22x \end{array}$$

$$\begin{array}{l} 24) \ -\frac{5}{7} - \frac{11}{7}x = -y \\ \quad 2y = 7 + 5x \end{array}$$

Critical thinking questions:

25) Write a system of equations with the solution $(4, -3)$.